

CLAIM AMENDMENTS

1 1. (original) An internal-combustion engine with at
2 least one cylinder (33 and 34), a movable piston, the cylinder (33
3 and 34) of which is covered by a cylinder head (13) provided with
4 intake ports and exhaust ports (10, 11), at which a rotary slide
5 valve (1) for opening and closing of at least one gas exchange
6 opening per cylinder (33 and 34) is provided, the rotary slide
7 valve (1) being designed as a double-walled tube with two passages
8 (40, 44) separated from each other; the inner cylindrical passage
9 (40) of the tube being particularly provided for discharging
10 exhaust gases and the shell passage (44) particularly being
11 provided for supply of air or a fuel/vapor mixture, the passages
12 (40, 44) being provided with radial passages (41 and 42 and 38, 45
13 and 46) leading directly to openings in the outer shell surface of
14 the rotary slide valve (1) and connecting, depend on their turned
15 positions, one or several of the cylinders (33 and 34) with the
16 intake or exhaust ports (10, 11) and furthermore the rotary slide
17 valve (1) being rotatably mounted in a chamber (30) of the cylinder
18 head (13) which is basically perpendicular to the axis of the at
19 least one cylinder (33 and 34) with one passage (36) per cylinder
20 (33 and 34) end in this chamber,
21 characterized in that a pressure plate (6) abutting the rotary
22 valve (1) with its surface is moveably mounted in axial direction
23 of the cylinder (33 and 34) in a cylindrical chamber (50) of the

24 cylinder head (2) on the side of the chamber (30) opposite a
25 passage (36) of a cylinder (33 and 34), the end turned away from
26 the rotary slide valve (1) of the cylindrical chamber (50) being
27 connected to the area adjacent to the cylinder head of the cylinder
28 situated opposite of the pressure plate (6) by means of a pressure
29 passage (15, 17, 20) running through the cylinder head (13).

1 2. (original) The internal-combustion engine according
2 to claim 1, characterized in that the pressure passage (20) is
3 filled with a fluid, e.g. with oil and in that a membrane is
4 provided at the entrance of the pressure passage (20) on the side
5 of the cylinder.

1 3. (currently amended) The internal-combustion engine
2 according to ~~claims~~ claim 1 [[or 2]], characterized in that the
3 rotary slide valve (1) can be driven intermittently, preferably by
4 means of a Geneva movement, so that the turning positions of a
5 radial passage (41 and 42, 45 and 46) also directed at a cylinder
6 opening are preserved with full cross section for pre-selectable
7 time intervals.

1 4. (currently amended) The internal-combustion engine
2 according to ~~one of claims~~ claim 1 [[to 3]], characterized in that
3 at least the inner passage (40) is formed by a ceramic tube.

1 5. (currently amended) The internal-combustion engine
2 according to ~~one of claims~~ claim 1 [[to 4]], characterized in that
3 the cylinder head (13) is designed in two parts, the chamber (30)
4 for holding the rotary slide valve (1) being formed by depressions
5 having a semicircular profile.